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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"5758257".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 14:56
L2	1	"6831798".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:29
L3	90890	hayashi.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:29
L4	41988	information with attributes	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:29
L5	11237811	@ad<"20001226"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:29
L6	18744	4 and 5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:29
L7	128	3 and 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:30
L8	36	network and 7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:30
L9	18616	6 not 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:30
L10	8460	network and 9	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:30
L11	18238	one-to-one with correspondence	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/06 15:31

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Relevance scale ☐ ☐ ☐ ☐ ☐**101** [Coping with errors: the importance of process data in robust sociotechnical systems](#)

Michael B. Twidale, Paul F. Marty

 December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**
**Publisher:** ACM Press

Full text available: pdf(140.67 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an analysis of written and electronic records that document the collaborative process of packing museum artifacts in preparation for a move. The majority of data recorded detailed the process of packing, while only a small amount of the data concerned which artifacts were packed in which boxes. Museum staff members were able to use these process data to solve the numerous errors that occurred during packing. We explore the design implications for collaborative systems wh ...

**Keywords:** error analysis, problem solving, process data, workflow, workplace study**102** [Chimera: hypermedia for heterogeneous software development environments](#)

Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead

 July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3
**Publisher:** ACM Press

Full text available: pdf(864.32 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

**Keywords:** heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments**103** [Investigating link service infrastructures](#)

David C. De Roure, Nigel G. Walker, Leslie A. Carr


 May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**
**Publisher:** ACM Press

Full text available: pdf(133.87 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** LDAP, Whois++, directory services, distributed link service, link service, open hypermedia, query routing

#### 104 Information dependencies

 Mehmet M. Dalkilic, Edward L. Roberston  
May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**  
**Publisher:** ACM Press

Full text available:  pdf(269.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper uses the tools of information theory to examine and reason about the information content of the attributes within a relation instance. For two sets of attributes X and Y, an information dependency measure (InD measure) characterizes the uncertainty remaining about the values for the set Y when the values for the set X are known. A variety of arithmetic inequalities (InD inequalities

**Keywords:** Armstrong's Axioms, entropy, functional dependency, information dependency, multivalued dependency

#### 105 A priority scheme for the IEEE 802.14 MAC protocol for hybrid fiber-coax networks


Mark D. Corner, Jörg Liebeherr, Nada Golmie, Chatschik Bisdikian, David H. Su  
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

**Publisher:** IEEE Press

Full text available:  pdf(300.06 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** local area networks, quality-of-service

#### 106 Controlling transmission order of inline objects for effective Web page publishing

 Tadashi Nakano, Kaname Harumoto, Shinji Shimojo, Shojiro Nishio  
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**

**Publisher:** ACM Press


Full text available:  pdf(571.96 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW, inline object, transmission order

#### 107 Mining multimedia data

Osmar R. Zaiane, Jiawei Han, Ze-Nian Li, Jean Hou  
November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  pdf(377.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage. We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases.

MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...


**Keywords:** data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

108 MAC protocol and traffic scheduling for wireless ATM networks

Nikos Passas, Lazaros Merakos, Dimitris Skyrianoglou, Frédéric Bauchot, Gérard Marmigère, Stéphane Decrauzat

September 1998 **Mobile Networks and Applications**, Volume 3 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(802.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Medium Access Control (MAC) protocol defined in the Wireless ATM Network Demonstrator (WAND) system being developed within the project Magic WAND is presented. Magic WAND is investigating extensions of ATM technology to cover wireless customer premises networks, in the framework of the Advanced Communications Technologies and Services (ACTS) programme, funded by the European Union. The MAC protocol, known as MASCARA, uses a dynamic TDMA scheme, which combines reservation- and contention ...

109 User-centered abstractions for adaptive hypermedia presentations



Dick C. A. Bulterman

September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CMIF, GRINS, SMIL, accessibility, hypermedia interfaces, user-centered adaptability

110 A dynamic view-oriented group communication service



Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available:  [pdf\(3.91 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

111 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(747.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

112 Marketing information on the I-Way: data junkyard or information gold mine?



P. K. Kannan, Ai-Mei Chang, Andrew B. Whinston

March 1998 **Communications of the ACM**, Volume 41 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(181.31 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**113** Visual information retrieval from large distributed online repositories

 Shih-Fu Chang, John R. Smith, Mandis Beigi, Ana Benitez  
December 1997 **Communications of the ACM**, Volume 40 Issue 12

**Publisher:** ACM Press

Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**114** Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren  
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**115** An object-oriented SGML/HyTime compliant multimedia database management system

 M. Tamer Özsu, Paul Iglinski, Duane Szafron, Sherine El-Medani, Manuela Junghanns  
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(1.77 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**116** Wavelet-based multiresolutional representation of computational field simulation datasets

Zhifan Zhu, Raghu Machiraju, Bryan Fry, Robert Moorhead  
October 1997 **Proceedings of the 8th conference on Visualization '97**

**Publisher:** IEEE Computer Society Press


Full text available:  [pdf\(1.26 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

**Keywords:** human visual system, progressive transmission, structure detection, wavelet transform

**117** Performance and reliability analysis of relevance filtering for scalable distributed interactive simulation

 Mostafa A. Bassiouni, Ming-Hsing Chiu, Margaret Loper, Michael Garnsey, Jim Williams  
July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(499.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Achieving the real-time linkage among multiple, geographically-distant, local area networks that support distributed interactive simulation (DIS) requires tremendous bandwidth and communication resources. Today, meeting the bandwidth and

communication requirements of DIS is one of the major challenges facing the design and implementation of large scale DIS training exercises. In this article, we discuss the DIS scalability problem, briefly overview the major bandwidth reduction techniques c ...


**Keywords:** bandwidth reduction, distributed interactive simulation, real-time protocols, scalable algorithms

**118** Design and performance evaluation of an RRA scheme for voice-data channel access in outdoor microcellular environments

Allan C. Cleary, Michael Paterakis

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(398.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In PCS networks, the multiple access problem is characterized by spatially dispersed mobile source terminals sharing a radio channel connected to a fixed base station. In this paper, we design and evaluate a reservation random access (RRA) scheme that multiplexes voice traffic at the talkspurt level to efficiently integrate voice and data traffic in outdoor microcellular environments. The scheme involves partitioning the time frame into two request intervals (voice and data) and an informat ...

**119** Design and performance evaluation of a MAC protocol for wireless local area networks

Marco Conti, Claudio Demaria, Lorenzo Donatiello

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(650.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We propose and analyze, from a performance viewpoint, a Medium Access Control (MAC) protocol for Wireless Local Area Networks (WLANs). The protocol, named Prioritized-Access with Centralized-Control (PACC), supports integrated traffics by guaranteeing an almost complete utilization of network resources. The proposed protocol combines random access for signalling, with collision-free access to the transmission channel. The transmission channel is assumed to be slotted, with slots grouped int ...

**120** A contention/reservation access protocol for speech and data integration in TDMA-based advanced mobile systems

Giuseppe Anastasi, Davide Grillo, Luciano Lenzini, Enzo Mingozi

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(909.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The performance of third generation mobile systems is greatly influenced by the multiple access protocols used in the radio access system. The paper introduces a multiple access protocol, SIR (Service Integration for Radio access), which has the potential for accommodating the requirements of speech and bursty data traffic in an efficient way. SIR is evolved from an access protocol (PRMA++) studied within the framework of the TDMA-based version of the European evolving standard for third ge ...

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